

S A F E T Y D A T A S H E E T



3141 Clifty Drive • Madison, IN 47250

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

NAME: **LIQUI-KAB 2001**

TYPE: Alkaline Cleaner
PRODUCT #: 751511

FOR INDUSTRIAL USE ONLY – KEEP OUT OF THE REACH OF CHILDREN

EMERGENCY RESPONSE INFORMATION:

CHEMTREC 800-424-9300 24-Hour Service
Company Offices: 812-273-6000 Weekdays

PREPARED DATE: 12-04-15 PREPARED BY: Marjorie E. Hare

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification	Corrosive to Metals	Category 1	H290
	Acute Toxicity, oral	Category 4	H302
	Skin Corrosion/Irritation	Category 1A	H314
	Serious Eye Damage/Eye Irritation	Category 1	H318
	Aquatic Toxicity (Acute)	Category 3	H402

Signal Word

DANGER

Symbol



Hazard Statements

H290 May be corrosive to metals.
H302 Harmful if swallowed
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H402 Harmful to aquatic life.

Precautionary Statements

P234 Keep only in original container.
P260 Do not breathe mist, spray, vapors.
P264 Wash hands, forearms, and exposed areas thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P280 Wear eye protection, face protection, protective clothing, protective gloves.
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER / doctor if you feel unwell. Rinse mouth.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water / shower.
P304 + P340 IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor / physician.
P321 Specific treatment (see Section 4).
P363 Wash contaminated clothing before reuse.

SAFETY DATA SHEET

Precautionary Statements - continued	P373	Avoid release to the environment.
	P390	Absorb spillage to prevent material damage.
	P405	Store locked up.
	P406	Store in corrosive resistant container with a resistant inner liner.
	P501	Dispose of contents / container according to local, regional, national and international regulations.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

<u>COMPONENT</u>	<u>SYNONYM</u>	<u>CAS NO.</u>	<u>% BY WEIGHT</u>
Sodium hydroxide	Caustic soda	1310-73-2	10 – 20
Potassium hydroxide	Caustic potash	1310-58-3	5 - 15

*If Chemical Name/CAS No is "proprietary" and/or % By Weight is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

SECTION 4: FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES:

EYES:	Immediately flush with large quantities of cool water continuously for at least 15 minutes. Call a physician.
SKIN:	Immediately flush with large quantities of cool water continuously for at least 15 minutes. Call a physician. Remove contaminated clothing and shoes. Do not put contaminated clothing and shoes back on. Wash clothing and shoes thoroughly in soap and water; rinse repeatedly in clean water and dry before reuse.
INGESTION:	If conscious, immediately give large quantities of water. DO NOT INDUCE VOMITING. Call a physician at once. DO NOT give anything by mouth if the person is unconscious or if having convulsions.
INHALATION:	Remove subject to fresh air. Give artificial respiration if necessary. Get medical attention immediately.
PRIMARY ROUTE(S) OF ENTRY:	Eyes, skin, ingestion.

MOST IMPORTANT SYMPTOMS / EFFECTS, ACUTE AND DELAYED:

EYE CONTACT:	Causes serious eye damage.
SKIN CONTACT:	Corrosive. Causes burns.
INGESTION:	Harmful if swallowed.
INHALATION:	May cause nasal and respiratory irritation.
CHRONIC SYMPTOMS:	None expected under normal conditions of use.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY:

If you experience any of the symptoms / effects listed above seek medical advice.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

Use extinguishing media as appropriate for surrounding fire.

SPECIFIC HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Not considered flammable or explosive. Hazardous reactions will not occur under normal conditions.

ADVICE FOR FIRE FIGHTERS:

Wear self-contained breathing apparatus and full protective clothing. Use water spray to keep containers cool.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide.

SAFETY DATA SHEET

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES:

Avoid all contact with skin, eyes and clothing. Avoid breathing vapors. Wear nitrile, neoprene, or natural rubber gloves. Goggles and faceshield necessary. Wear suitable protective clothing. Use NIOSH / MSHA approved positive pressure self-contained breathing apparatus when any material is involved in a fire.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

Contain liquid spills with sand and absorb on inert material. Dispose with solid waste. See Waste Disposal Method. Ventilate area. Do not discharge to sewers or waterways without proper treatment.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

Wear proper safety equipment when handling this product. Handle in accordance with good industrial hygiene and safety procedures.

CONDITIONS FOR SAFE STORAGE, INCLUDING INCOMPATIBILITIES:

Normal for alkaline materials. Store away from acids. Keep container closed when not in use.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

CHEMICAL IDENTITY

Sodium hydroxide

CAS NO.

1310-73-2

OSHA PEL

2 mg / M³

ACGIH TLV

2 mg / M³*

Potassium hydroxide

1310-58-3

N.E.

2 mg / M³*

*Denotes ceiling limit.

ENGINEERING CONTROLS:

Use good ventilation. Local exhaust is recommended if TLVs are exceeded.

INDIVIDUAL PROTECTION MEASURES:

Selection of personal protective equipment should be based upon the anticipated exposure and made in accordance with OSHA's Personal Protective Equipment Standard found in 29 CFR 1910 Subpart I. The following information may be used to assist in PPE selection.

RESPIRATORY PROTECTION:

In absence of proper environmental control, use NIOSH / MSHA approved respirator for dusts and mists where airborne exposure is excessive.

SKIN PROTECTION:

Nitrile, neoprene or natural rubber gloves. Rubber apron and rubber boots required. Other equipment as required to avoid contact.

EYE PROTECTION:

Goggles and face shield necessary.

GENERAL HYGIENE CONSIDERATIONS:

Eyewash facility and emergency shower should be in close proximity. Always wash hands after handling any chemical.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

Straw colored liquid

ODOR:

Mild

ODOR THRESHOLD:

Not available.

pH (100%):

14.5 – 14.7

MELTING POINT/FREEZING POINT

Not determined

INITIAL BOILING POINT AND BOILING RANGE

220°F

FLASH POINT (METHOD USED)

Not available.

EVAPORATION RATE

Not available.

FLAMMABILITY (SOLID, GAS)

Not available.

UPPER/LOWER FLAMMABLE OR EXPLOSIVE LIMIT

Not available.

VAPOR PRESSURE

Not available.

VAPOR DENSITY

Not available.

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SPECIFIC GRAVITY	1.21
SOLUBILITY IN WATER	Complete.
PARTITION COEFFICIENT: N-OCTANOL/WATER	Not available.
AUTO-IGNITION TEMPERATURE	Not available.
VISCOSITY, DYNAMIC	Not available.
DECOMPOSITION TEMPERATURE	Not available.
VISCOSITY	Not available.

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY:	Hazardous reactions will not occur under normal conditions.
CHEMICAL STABILITY:	Stable under recommended handling and storage conditions (see Section 7).
POSSIBILITY OF HAZARDOUS REACTIONS:	Hazardous polymerization will not occur.
CONDITIONS TO AVOID:	No data found.
INCOMPATIBLE MATERIALS:	Strong oxidizing agents, acids
HAZARDOUS DECOMPOSITION PRODUCTS:	None known.

SECTION 11: TOXOLOGICAL INFORMATION

ACUTE TOXICITY:	Not classified.
LD50 AND LC50 DATA:	Not available.
ROUTES OF EXPOSURE / SYMPTOMS	
EYES:	DANGER! Causes burns.
SKIN:	DANGER! Causes burns.
INGESTION:	WARNING! Harmful if swallowed.
INHALATION:	WARNING! Causes burns to alimentary canal and mucous membranes.
GERM CELL MUTAGENICITY:	Not classified.
TERATOGENICITY:	Not available.
CHRONIC EFFECTS / CARCINOGENICITY:	This material contains no ingredient above de minimus concentrations known or suspected to cause cancer.
SPECIFIC TARGET ORGAN TOXICITY (Repeated exposure):	Not classified.
REPRODUCTIVE TOXICITY:	Not classified.
SPECIFIC TARGET ORGAN TOXICITY (Single exposure):	Not classified.
ASPIRATION HAZARD:	Not classified.

COMPONENT INFORMATION:

	LD50 Oral: No Data
Sodium hydroxide	LD50 Dermal Rabbit: 1350 mg/kg
	LD50 Inhalation: no data
	LD50 Oral Rat: 214 mg/kg
Potassium hydroxide	LD50 Dermal: No data
	LC50 Inhalation: No data

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SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY The ecotoxicity of this product is not known

COMPONENT INFORMATION

Sodium hydroxide	Freshwater Fish Toxicity Data: LC50 Fish (<i>Oncorhynchus mykiss</i> [static]): 45.4 mg/L/96 hr Invertebrate Toxicity Data: Not available
Potassium hydroxide	Freshwater Fish Toxicity Data: LC50 Mosquito fish: 80 mg/L/96 hr (static) LC50 Fathead minnow: 179 mg/L/96 hr (static) Invertebrate Toxicity Data: EC50 <i>Daphnia magna</i> : 60 mg/L/48 hr (static)

PERSISTENCE AND DEGRADABILITY: Not available.
BIOACCUMULATIVE POTENTIAL: Not available.
MOBILITY IN SOIL: Not available.
OTHER ADVERSE EFFECTS: This material contains no hazardous air pollutants (HAPS).

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD Normal for alkaline wastes. May require pH adjustment for neutralization. Dispose in accordance with local, state and federal regulations.

SECTION 14: TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Corrosive liquid, basic, inorganic, n.o.s. (contains sodium hydroxide and potassium hydroxide)
HAZARD CLASS: 8
IDENTIFICATION NUMBER: UN3266
PACKING GROUP: III
EMERGENCY RESPONSE GUIDE: ERG #154

SECTION 15: REGULATORY INFORMATION

VOC: Less than 0.01 pounds per gallon (0.7 grams per liter).
TSCA STATUS All ingredients are listed on the TSCA inventory.
CERCLA REPORTABLE QUANTITY 1,000 pounds for sodium hydroxide (approximately 835 gallons).
1,000 pounds for potassium hydroxide (approximately 1,431 gallons)

SARA 311 / 312 HAZARD CLASSES

<input checked="" type="checkbox"/>	ACUTE HEALTH
<input type="checkbox"/>	FIRE
<input type="checkbox"/>	SUDDEN RELEASE OF PRESSURE
<input type="checkbox"/>	CHRONIC HEALTH
<input type="checkbox"/>	REACTIVE

SARA 312 INFORMATION

Storage of 10,000 pounds or more may require filing a Tier 2 form. Threshold planning quantity for reporting is 10,000 pounds. This material is not an extremely hazardous substance (EHS).

SARA 313 INFORMATION

This material contains the following substances subject to the reporting requirements of Section 313 of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372

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CHEMICAL NAME
NONE

CATEGORY CODE

CAS NUMBER

% BY WEIGHT

STATE REGULATORY INFORMATION

CALIFORNIA PROPOSITION 65

California has not identified the ingredients listed in Section 3 as known to cause cancer or reproductive toxicity.

SECTION 16: OTHER INFORMATION

SDS STATUS: Revised Sections 1, 2, 3 and 16 on 12-04-15.

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

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